

# ISRCS Cognitive Systems 2015

Hosted in Philadelphia, PA • August 18-20, 2015

## 3<sup>rd</sup> International Symposium on Resilient Cognitive Systems

The major purpose of this symposium is to extend and endorse particular concepts that will generate novel research and codify resilience in next generation cognitive system designs.

**Statement of Themes:** Many environments critical to cyber and physical infrastructure exhibit interplays between engineering systems design and human factors engineering. The Cognitive Systems track will explore how people, individually and in teams, engage in cognitive and cooperative problem solving in complex, time-critical, and high-consequence settings. We will emphasize technology designs, operating concepts and procedures, and cognitive science research that improves overall human-system performance and increases the resilience and robustness of complex sociotechnical systems. Joint sessions with the Control Systems and Cyber Systems Symposia will explore the functional relations of systems integrating humans, automation, and system management resources.

### Submission Schedule

- Paper Submission Due: April 6, 2015
- Notification of Paper Acceptance: June 15, 2015
- Final Paper Submission: July 6, 2015

### Cost

- \$495
- \$445 for registration by July 12, 2015
- \$50 discount for IEEE IES members
- \$50 discount for HFES members
- Half price registration for registered students

### Venue/Accommodations

Hyatt Regency Philadelphia  
201 S Columbus Blvd, Philadelphia, PA 19106  
Tel: 215.928.1234 • Fax: 215.521.6543

[Reservations](#)

### Schedule

- Day 1: Special Topics Sessions
- Day 2: Paper Sessions
- Day 3: Panel and Breakouts

### General Chairs

- Roger Lew  
University of Idaho  
[Send Email](#)
- Ron Boring  
Idaho National Laboratory  
[Send Email](#)

### Organizing Chair

- Jodi Grgich,  
Idaho National Laboratory  
[Send Email](#)

### Benefits

- Opportunity to participate in an evolving focus area within critical infrastructure protection and cyber-physical systems
- Reduced registration fee for IEEE IES and HFES members

### Call for Papers

Paper submission will be handled through the symposium website listed below. Please refer to this website for the latest information.

- Full Papers: limited to 6 double column pages in a font no smaller than 10-points per IEEE format guidance.
- Work-in-Progress and Industry practice: limited to 4 double column pages, in a font no smaller than 10-points per IEEE format guidance. Work-in-Progress papers comprise up to 4 double-column pages, describing research that has not yet produced the results required for a regular paper, but that due its novelty and potential impact deserves to be shared with the community at an early stage. Accepted papers and Work-in-Progress papers will be published in the conference proceedings.

### Topical Areas (including, but not limited to)

- Selection, training and performance in complex socio-technical systems
- Human performance models of event response
- Cognitive readiness in high-consequence environments
- Macroergonomics, systems design, and safety
- Human factors of security, privacy, and trust
- Situation cognition in cyber, physical, and hybrid environments
- Procedures, checklists, and skilled performance
- Human supervisory control and complex systems performance
- Distributed cognition, expertise coordination, and teamwork
- Human-machine interaction with automation, computers, and robots

### Keynote Speakers

- Najmedin Meshkati, University of Southern California

<http://resilienceweek2015.inl.gov/CognitiveSystems>